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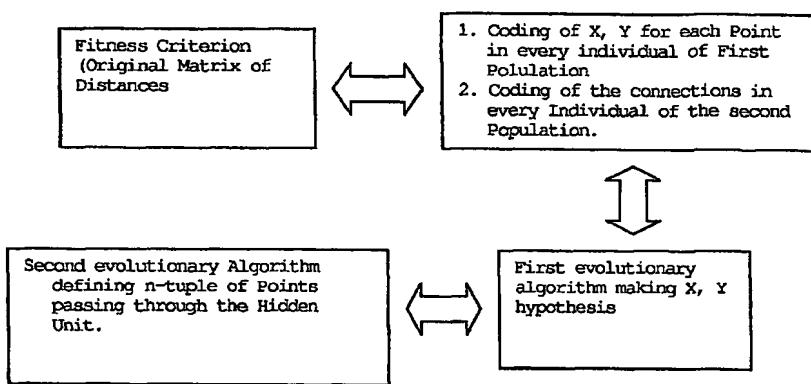
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(54) Title: METHOD, COMPUTER PROGRAM AND COMPUTER READABLE MEANS FOR PROJECTING DATA FROM A MULTIDIMENSIONAL SPACE INTO A SPACE HAVING LESS DIMENSIONS AND TO CARRY OUT A COGNITIVE ANALYSIS ON SAID DATA



(57) Abstract: An Algorithm for projecting information data belonging to a multidimensional space into a space having less dimensions a method for the cognitive analysis of multidimensional information data based on the said algorithm and a program comprising the said algorithm stored on a recordable support. An Algorithm for projecting information data belonging to a multidimensional space into a space having less dimensions comprising the following steps: Providing a database of N-dimensional data in the form of records having a certain number of variables; Defining a metric function for calculating a distance between each record of the database; Calculating a matrix of distances between each record of the database by means of the metric function defined at the previous step; Defining a n-1 dimensional space in which each record is defined by n-1 coordinates; Calculating the n-1 coordinates of each record in the n-1 dimensional space by means of an evolutionary algorithm; Defining as the best projection of the records onto the n-1 dimensional space the projection in which the distance matrix of the records in the n-1 dimensional space best fits or has minimum differences with the distance matrix of the records calculated in the n-dimensional space. The Method and the program apply the aforementioned algorithm.

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